

ABSTRACT

The present invention is directed to a new visualization platform for the interactive exploration of large datasets. The present invention integrates a collection of relevant visualization techniques to provide a new visual metaphor for viewing large
5 datasets. It is capable of providing comprehensive support for data exploration, integrating large-scale data visualization with querying, browsing, and statistical evaluation. A variety of techniques are utilized to minimize processing delays and the use of system resources, including processing pipelines, direct IO, memory mapping, and dynamic linking of “on-the-fly” generated code.